

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	23478	(earthworm or worm) and (medical or surg\$ or thermal or cut\$ or coagu\$ or electrode or radiofrequency or microwave or resistance or laser)	USPAT	OR	OFF	2005/10/28 11:20
L2	14225	(earthworm or worm) and (medical or surg\$ or thermal or coagu\$ or electrode or radiofrequency or microwave or resistance or laser)	USPAT	OR	OFF	2005/10/28 11:19
L3	20340	(earthworm or worm) and (medical or surg\$ or thermal or cut\$ or coagu\$ or electrode or radiofrequency or microwave or laser)	USPAT	OR	OFF	2005/10/28 11:19
L4	6885	(earthworm or worm) and (medical or surg\$ or thermal or coagu\$ or electrode or radiofrequency)	USPAT	OR	OFF	2005/10/28 11:19
L5	6843	(worm) and (medical or surg\$ or thermal or coagu\$ or electrode or radiofrequency)	USPAT	OR	OFF	2005/10/28 11:19
L6	19247	worm and (medical or surg\$ or thermal or cut\$ or coagu\$ or electrode)	USPAT	OR	OFF	2005/10/28 11:20
L7	2559	worm and (medical or surg\$)	USPAT	OR	OFF	2005/10/28 11:20
L8	671	worm and (medical or surg\$) and 60\$/\$.ccls.	USPAT	OR	OFF	2005/10/28 11:21
L9	518	worm and surg\$ and 60\$/\$.ccls.	USPAT	OR	OFF	2005/10/28 11:22
L10	443	worm and medical and 60\$/\$.ccls.	USPAT	OR	OFF	2005/10/28 11:22
L11	12	worm and medical and 128/898. ccls.	USPAT	OR	OFF	2005/10/28 11:22

## NON-PATENT LITERATURE

File 155:MEDLINE(R) 1951-2005/Oct 27

(c) format only 2005 Dialog

Set	Items	Description
S1	2203	'OLIGOCHAETA' OR DC='B1.500.91.657.' OR 'EARTHWORMS' OR 'EISENIA FOETIDA' OR 'EISENIA WORM' OR 'LUMBRICUS' OR 'LUMBRICUS TERRESTRIS'
S2	20534	'SURGICAL INSTRUMENTS' OR DC='E7.858.700.' OR 'FORCEPS' OR 'SCISSORS, SURGICAL' OR 'TROCAR' OR 'OBSTETRICAL FORCEPS' OR - 'SURGICAL STAPLERS'
S3	0	S1 AND S2
S4	726164	'EQUIPMENT AND SUPPLIES' OR DC='E7.' OR 'APPARATUS AND INSTRUMENTS' OR 'DEVICES'
S5	61	S1 AND S4
S6	1539461	TEST OR TESTS OR TESTED OR TESTING
S7	10	S5 AND S6 [not relevant]
S8	672166	MEDICAL
S9	551302	SURGICAL
S10	1	S5 AND S8:S9 [not relevant]
S11	50	S5 NOT (S7 OR S10)
S12	195669	HEAT OR HEATING OR HEATS OR HEATED OR THERMAL??
S13	2	S5 AND S12 [not relevant]
S14	7	S6(S)S12(S) (EARTHWORM? ? OR EARTH()WORM? ?)
S15	7	RD (unique items)
S16	7	S14 NOT S5 [not relevant]

### 11/3,K/38

DIALOG(R) File 155:MEDLINE(R)

(c) format only 2005 Dialog. All rts. reserv.

08781380 PMID: 2811432

#### **A single-ended perfusion method for large, cylindrical cells.**

Jaslove S W

Department of Anatomical Sciences, State University of New York, Stony Brook 11794.

Journal of neuroscience methods (NETHERLANDS) Oct 1989, 30 (1) p33-40, ISSN 0165-0270 Journal Code: 7905558

Contract/Grant No.: HL31299; HL; NHLBI; NS06452; NS; NINDS

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

; Animals; Astacoidea; Electrophysiology; Membrane Potentials; Microelectrodes; **Oligochaeta**

### 11/3,K/48

DIALOG(R) File 155:MEDLINE(R)

(c) format only 2005 Dialog. All rts. reserv.

03935675 PMID: 4638663

#### **Progress in microelectrode techniques for kidney tubules.**

Fromter E

Yale journal of biology and medicine (UNITED STATES) Jun-Aug 1972, 45

(3) p414-25, ISSN 0044-0086 Journal Code: 0417414

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH  
Main Citation Owner: NLM  
Record type: MEDLINE; Completed  
...; physiology--PH; Kidney Tubules, Distal--physiology--PH; Kidney  
Tubules, Proximal--physiology--PH; Membrane Potentials; Methods;  
**Oligochaeta** ; Punctures; Rats; Time Factors

File 155:MEDLINE(R) 1951-2005/Oct 27  
 (c) format only 2005 Dialog  
 File 5:Biosis Previews(R) 1969-2005/Oct W4  
 (c) 2005 BIOSIS  
 File 73:EMBASE 1974-2005/Oct 28  
 (c) 2005 Elsevier Science B.V.  
 File 34:SciSearch(R) Cited Ref Sci 1990-2005/Oct W4  
 (c) 2005 Inst for Sci Info  
 File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec  
 (c) 1998 Inst for Sci Info  
 File 94:JICST-EPlus 1985-2005/Aug W4  
 (c) 2005 Japan Science and Tech Corp(JST)  
 File 99:Wilson Appl. Sci & Tech Abs 1983-2005/Sep  
 (c) 2005 The HW Wilson Co.  
 File 65:Inside Conferences 1993-2005/Oct W4  
 (c) 2005 BLDSC all rts. reserv.  
 File 431:MediConf: Medical Con. & Events 1998-2004/Oct B2  
 (c) 2004 Dr. R. Steck  
 File 35:Dissertation Abs Online 1861-2005/Oct  
 (c) 2005 ProQuest Info&Learning  
 File 2:INSPEC 1898-2005/Oct W3  
 (c) 2005 Institution of Electrical Engineers  
 File 6:NTIS 1964-2005/Oct W3  
 (c) 2005 NTIS, Intl Cpyrghrt All Rights Res  
 File 8:Ei Compendex(R) 1970-2005/Oct W3  
 (c) 2005 Elsevier Eng. Info. Inc.  
 File 71:ELSEVIER BIOBASE 1994-2005/Oct W3  
 (c) 2005 Elsevier Science B.V.  
 File 144:Pascal 1973-2005/Oct W3  
 (c) 2005 INIST/CNRS  
 File 185:Zoological Record Online(R) 1978-2005/Oct  
 (c) 2005 BIOSIS  
 File 104:AeroBase 1999-2005/Oct  
 (c) 2005 Contains copyrighted material

Set	Items	Description
S1	46703	EARTH()WORM? ? OR EARTHWORM? ? OR EISENIA() (FOETIDA OR FET- IDA OR WORM? ?) OR LUMBRICUS OR LUMBRICID?? OR ALLOLOBOPHORA(- )CALIGINOSA? ? OR OLIGOCHAETA? ? OR MEGADRILE? ?
S2	223	HAPLOTAXIDA? ? OR DEWWORM? ? OR ANGLEWORM? ? OR NIGHTCRAWL- ER? ? OR (DEW OR ANGLE)()WORM? ?
S3	373387	MEGASCOLECID?? OR SPARAGANOPHILID?? OR GLOSSOSCOLECID?? OR ACANTHOCEPHALA? ? OR ANNELID? OR CHAETOGNATHA? ? OR GNATHOSTO- MULIDA? ? OR NEMATODA? ? OR NEMATOMORPHA? ? OR NEMERTEA? ? OR ONYCHOPHORA? ? OR PLATYHELMINTH? OR SIPUNCULA? ?
S4	277048	(SPINY()HEADED OR SEGMENTED OR ARROW OR JAW OR HORSEHAIR OR VELVET OR PEANUT)() (WORM OR WORMS) OR ROUNDWORM? ? OR RIBBON- WORM? ? OR FLATWORM? ? OR HELMINTH? ?
S5	1887	ARROWWORM? ? OR NEMERTINE? ? OR PROBISCUS()WORM? ? OR BEAR- D()WORM? ? OR POGONOPHORAN? ?
S6	2985907	HEAT OR HEATS OR HEATED OR HEATING OR HEATER? ?
S7	2568391	THERMAL?? OR CAUTER?
S8	329286	ELECTROCAUTER? OR THERMOCAUTER? OR BURN OR BURNS OR BURNING OR BURNED
S9	5149762	TISSUE? ?
S10	288	S1:S5 AND S6:S8(S)S9
S11	9290862	MEDICAL
S12	6963512	SURGICAL? OR SURGERY OR SURGERIES

S13 25 S10 AND S11  
S14 2 S10 AND S12  
S15 26 S13:S14  
S16 23 RD (unique items)  
S17 4 S16/2004:2005  
S18 19 S16 NOT S17  
S19 52 S1 AND S10  
S20 52 S19 NOT S16  
S21 25 RD (unique items)  
S22 0 S21/2004:2005  
S23 44 S18 OR S21  
**S24 44 Sort S23/ALL/PY,A**  
S25 16498 CAUTER? OR ELECTROCAUTER? OR THERMOCAUTER?  
S26 14 S1:S5 AND S25  
S27 14 S26 NOT (S15 OR S19)  
S28 9 RD (unique items)  
**S29 9 Sort S28/ALL/PY,A**

**24/3,K/3 (Item 3 from file: 185)**

DIALOG(R)File 185:Zoological Record Online(R)

(c) 2005 BIOSIS. All rts. reserv.

0000150813 BIOSIS No. 11500008356

**Thermal transition in the collagenous tissues of poikilothermic animals.**

AUTHORS: Rigby, B.J.

SOURCE: Journal of Thermal Biology 2(2) 1977:89-93. [Print]

DOCUMENT TYPE: Article

ISSN: 0306-4565

RECORD TYPE: Citation

DESCRIPTORS:

**Allolobophora caliginosa , ...**  
**... Eisenia foetida --Connective tissue , ...**  
**...Collagenous tissues , ...**  
**... thermal transitions...**  
**...Physical properties of tissues , ...**  
**... Thermal transitions in collagenous tissues**

SUPER TAXA:

**Annelida...**

**...Oligochaeta**

TAXA NOTES:

**Annelids ; Invertebrates**

SYSTEMATICS:

**Allolobophora caliginosa ( Oligochaeta )**

**Eisenia foetida (Oligochaeta)**

**24/3,K/12 (Item 12 from file: 185)**

DIALOG(R)File 185:Zoological Record Online(R)

(c) 2005 BIOSIS. All rts. reserv.

0000488516 BIOSIS No. 12000054336

**Temperature compensation of general and tissue metabolism under poikilo-, hetero- and homeothermia.**

AUTHORS: Slonim, A.D.; Bazhenova, A.F.; Ibraimova, G.I.; Prasolova, M.M.; Tikhonova, N.S.

SOURCE: Advances in Physiological Sciences 32 1980[1981]:253-256. [Print]

DOCUMENT TYPE: Article

LANGUAGES: English

RECORD TYPE: Citation

DESCRIPTORS:

... **Thermal** acclimation...  
...General & **tissue** metabolism under poikilo...  
...hetero & homeothermia effect on general & **tissue** metabolism  
Agama sanguinolenta...  
...Teratoscincus scincus-- **Thermal** acclimation...  
...General & **tissue** metabolism under poikilo

SUPER TAXA:

**Annelida** \* ...  
...Oligochaeta

TAXA NOTES:

Amphibians; **Annelids** ; Bats; Chordates; Invertebrates; Mammals; Reptiles  
; Rodents; Vertebrates

SYSTEMATICS:

Limnodrilus udekemianus ( **Oligochaeta**)  
Rana ridibunda (Ranidae)  
Sauria (Squamata)  
Agama sanguinolenta (Agamidae)  
Phrynocephalus guttatus (Agamidae)  
Ophisaurus apodus (Anguidae)  
Teratoscincus...

**24/3,K/14** (Item 14 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

(c) format only 2005 Dialog. All rts. reserv.

06312844 PMID: 7075823

**[Trace reactions and ambient temperatures]**

Sledovye reaktsii i temperatura sredy.

Slonim A D

Fiziologicheskii zhurnal SSSR imeni I. M. Sechenova (USSR) Feb 1982,  
68 (2) p172-7, ISSN 0015-329X Journal Code: 0427673

Publishing Model Print

Document type: Journal Article ; English Abstract

Languages: RUSSIAN

Main Citation Owner: NLM

Record type: MEDLINE; Completed

Experimental data obtained on thermoregulatory trace reaction at the organismic, organic and **tissue** levels divided the trace reactions into 3 groups: continuous or discontinuous influences of ambient temperatures leading to high organism tolerance--adaptations; combination of **thermal** stimuli with indifferent ones and the formation of conditioned thermoregulatory reflex; habituation--following either single or repeated **thermal** stimuli. Changes in temperature relations of **tissue** and organ metabolism (Q 10) on ambient temperature shifts both in experiment and in natural...

; Amphibia; Animals; Body Temperature Regulation; Fishes; Habituation (Psychophysiology)--physiology--PH; Humans; **Oligochaeta** ; Rats

**24/3,K/26** (Item 26 from file: 5)

DIALOG(R) File 5:Biosis Previews(R)

(c) 2005 BIOSIS. All rts. reserv.

0008887885 BIOSIS NO.: 199396052301

**Targeted single-cell induction of gene products in Caenorhabditis elegans:**

**A new tool for developmental studies**

AUTHOR: Stringham Eve G; Candido E Peter M (Reprint)  
AUTHOR ADDRESS: Dep. Biochem., Univ. British Columbia, Vancouver, BC V6T  
1Z3, Canada\*\*Canada  
JOURNAL: Journal of Experimental Zoology 266 (3): p227-233 1993.  
ISSN: 0022-104X  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

ABSTRACT: **Heat** shock promoters have been employed to achieve tightly regulated expression of transformed genes in a wide variety of model systems including **tissue** culture cells, bacteria, yeast, *Drosophila*, and more recently *Caenorhabditis elegans*. Here we investigate the feasibility of using a laser microbeam to induce a sub-lethal **heat** shock response in individual cells of *C. elegans*. We demonstrate that in transgenic strains carrying **heat** shock promoter-lacZ fusions, single cell expression of P-galactosidase in a variety of cell...  
...of endodermal, mesodermal, or ectodermal origin can be achieved after pulsing with a laser. A **tissue** -general, inducible promoter can therefore be converted into one of single cell specificity which can...  
...a new approach to generate mosaic animals and may be adaptable to other organisms or **tissues** .

DESCRIPTORS:

BIOSYSTEMATIC NAMES: **Nematoda** --...  
... **Oligochaeta** --...  
... **Annelida** , Invertebrata, Animalia  
ORGANISMS: *Steinernema carpocapsae* ( **Nematoda** ); ...  
...*Aporrectodea trapezoides* ( **Oligochaeta** ); ...  
... **Lumbricus terrestris** ( **Oligochaeta** )  
...COMMON TAXONOMIC TERMS: **Helminths** ; ...  
... **Annelids** ;  
BIOSYSTEMATIC CODES:  
51300 **Nematoda** ...  
...65400 **Oligochaeta**

29/3,K/7 (Item 7 from file: 185)

DIALOG(R) File 185:Zoological Record Online(R)

(c) 2005 BIOSIS. All rts. reserv.

0001022973 BIOSIS No. 12800052638

**Cicatritzacio de les ferides per cauteritzacio del tegument d'Hirudo medicinalis L.**

AUTHORS: Molinas, M.; Dalmau, J.; Huguet, G.

SOURCE: *Scientia Gerundensis* 14 1989:113-122. [Print]

DOCUMENT TYPE: Article

ISSN: 0213-5930

LANGUAGES: Catalan SUMMARY LANGUAGES: English; Spanish

RECORD TYPE: Citation

SUPER TAXA:

**Annelida** \*

TAXA NOTES:

**Annelids** ; Invertebrates

File 9:Business & Industry(R) Jul/1994-2005/Oct 26  
 (c) 2005 The Gale Group  
 File 149:TGG Health&Wellness DB(SM) 1976-2005/Oct W4  
 (c) 2005 The Gale Group  
 File 16:Gale Group PROMT(R) 1990-2005/Oct 27  
 (c) 2005 The Gale Group  
 File 160:Gale Group PROMT(R) 1972-1989  
 (c) 1999 The Gale Group  
 File 148:Gale Group Trade & Industry DB 1976-2005/Oct 28  
 (c)2005 The Gale Group  
 File 636:Gale Group Newsletter DB(TM) 1987-2005/Oct 27  
 (c) 2005 The Gale Group  
 File 635:Business Dateline(R) 1985-2005/Oct 28  
 (c) 2005 ProQuest Info&Learning  
 File 98:General Sci Abs/Full-Text 1984-2004/Dec  
 (c) 2005 The HW Wilson Co.  
 File 369:New Scientist 1994-2005/Jul W2  
 (c) 2005 Reed Business Information Ltd.  
 File 370:Science 1996-1999/Jul W3  
 (c) 1999 AAAS  
 File 441:ESPICOM Pharm&Med DEVICE NEWS 2005/Sep W2  
 (c) 2005 ESPICOM Bus.Intell.

Set	Items	Description
S1	1853	EARTH()WORM? ? OR EARTHWORM? ? OR EISENIA() (FOETIDA OR FET- IDA OR WORM? ?) OR LUMBRICUS OR LUMBRICID?? OR ALLOLOBOPHORA(- )CALIGINOSA? ? OR OLIGOCHAETA? ? OR MEGADRILE? ?
S2	263	HAPLOTAXIDA? ? OR DEEWORM? ? OR ANGLEWORM? ? OR NIGHTCRAWL- ER? ? OR (DEW OR ANGLE)()WORM? ?
S3	742	MEGASCOLECID?? OR SPARAGANOPHILID?? OR GLOSSOSCOLECID?? OR ACANTHOCEPHALA? ? OR ANNELID? OR CHAETOGNATHA? ? OR GNATHOSTO- MULIDA? ? OR NEMATODA? ? OR NEMATOMORPHA? ? OR NEMERTEA? ? OR ONYCHOPHORA? ? OR PLATYHELMINTH? OR SIPUNCULA? ?
S4	1980	(SPINY()HEADED OR SEGMENTED OR ARROW OR JAW OR HORSEHAIR OR VELVET OR PEANUT)() (WORM OR WORMS) OR ROUNDWORM? ? OR RIBBON- WORM? ? OR FLATWORM? ? OR HELMINTH? ?
S5	53	ARROWWORM? ? OR NEMERTINE? ? OR PROBISCUS()WORM? ? OR BEAR- D()WORM? ? OR POGONOPHORAN? ?
S6	850468	HEAT OR HEATS OR HEATED OR HEATING OR HEATER? ?
S7	274546	THERMAL?? OR CAUTER?
S8	409915	ELECTROCAUTER? OR THERMOCAUTER? OR BURN OR BURNS OR BURNING OR BURNED
S9	279978	TISSUE? ?
S10	563	S1:S5 AND S6:S8
S11	158	S10 AND S9
S12	69	S1:S5(S)S6:S8
S13	3	S9(S)S12
<b>S14</b>	<b>3</b>	<b>RD (unique items) [not relevant]</b>
S15	66	S12 NOT S13
S16	59	RD (unique items)
S17	6	S16/2004:2005
S18	53	S16 NOT S17
<b>S19</b>	<b>53</b>	<b>Sort S18/ALL/PD,A</b>

19/3,K/3 (Item 3 from file: 160)  
 DIALOG(R)File 160:Gale Group PROMT(R)  
 (c) 1999 The Gale Group. All rts. reserv.  
 01126595



**Bioluminescence: Possible uses.**

TECHNOLOGY FORECASTS & TECHNOLOGY SURVEYS November, 1984 p. 11

... of Wisconsin Cooperative Extension Service. This is higher than the average incandescent light bulb, which **burns** at only 10 percent efficiency, losing 90 percent of its energy and **heat**. Food microbiologist are trying to apply the firefly type reactions for milk processing to devise...

... before pasteurization. Bioluminescent reactions from fireflies as well as jellyfish, squid, fungi, various beetles and **earthworms** are being studied for practical applications...

**19/3,K/29 (Item 29 from file: 370)**

DIALOG(R)File 370:Science

(c) 1999 AAAS. All rts. reserv.

00505387 (USE 9 FOR FULLTEXT)

**Materials with Negative Compressibilities in One or More Dimensions**

Baughman, Ray H.; Stafstrom, Sven; Cui, Changxing; Dantas, Socrates O.

R. H. Baughman and C. Cui, Allied Signal, Research and Technology, Morristown, NJ 07962-1021, USA. ; S. Stafstrom, Department of Physics and Measurement Technology, Linkoping University, S-581 83, Linkoping, Sweden. ; S. O. Dantas, Departamento de Fisica, UFJF, CEP 36036-330, Juiz de Fora, Minas Gerais, Brazil.

Science Vol. 279 5356 pp. 1522

Publication Date: 3-06-1998 (980306) Publication Year: 1998

Document Type: Journal ISSN: 0036-8075

Language: English

Section Heading: Reports

Word Count: 2599

(THIS IS THE FULLTEXT)

...Text: a negative linear compressibility, combined with a positive Grueneisen coefficient, can lead to a negative **thermal** expansion coefficient, but these properties need not coexist (B6). Such negative linear **thermal** expansion coefficients are observed in the direction of maximum negative linear compressibility for Se, Te, (beta) -phase m-dihydroxybenzene, cesium biphthalate, lanthanum niobate, and cesium dihydrogen phosphate, but the **thermal** expansion coefficients are all positive for Hg.inf(2)Br.inf(2) and tris-sarcosine...

...a much lower modulus polymer matrix (B13). Because particular muscular hydrostats (such as found for **nemertean**, nematode, and turbellarian **worms**; squid tentacles; and ancient limbless tetrapods) have a similar structure (B14...

**19/3,K/32 (Item 32 from file: 98)**

DIALOG(R)File 98:General Sci Abs/Full-Text

(c) 2005 The HW Wilson Co. All rts. reserv.

04014401 H.W. WILSON RECORD NUMBER: BGS199014401 (USE FORMAT 7 FOR FULLTEXT)

**Heat-shock proteins, molecular chaperones, and the stress response: evolutionary and ecological physiology.**

AUGMENTED TITLE: review

Feder, Martin E

Hofmann, Gretchen E

Annual Review of Physiology (Annu Rev Physiol) v. 61 ('99) p. 243-82

SPECIAL FEATURES: bibl il ISSN: 0066-4278

LANGUAGE: English

COUNTRY OF PUBLICATION: United States

WORD COUNT: 20648

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

... of Hsps is a cellular defense mechanism that enables the parasite to live in different **thermal** environments throughout its life-cycle (119). Parasites that infect mammalian and avian hosts can undergo...  
...tsetse fly and enters a mammalian host (120). Aquatic snails release cercariae of the parasitic **helminth**, *Schistosoma mansoni*, into freshwater; cercariae penetrate human skin and develop into adult worms, eventually causing liver cirrhosis. The cercariae express two **heat**-inducible proteins that are not present in other stages (121).

Parasites that have an insect...80. Ruffin P, Demuynck S, Hilbert JL, Dhainaut A. 1994. Stress protein in the polychaete **annelid** *Nereis diversicolor* induced by **heat** shock or cadmium exposure. *Biochimie* 76:423-27

81. Steinert SA, Pickwell GV. 1988. Expression...

File 198:Health Devices Alerts(R) 1977-2005/Oct W2

(c) 2005 ECRI-nonprft agncy

Set	Items	Description
S1	0	EARTH()WORM? ? OR EARTHWORM? ? OR EISENIA() (FOETIDA OR FET- IDA OR WORM? ?) OR LUMBRICUS OR LUMBRICID?? OR ALLOLOBOPHORA(- )CALIGINOSA? ? OR OLIGOCHAETA? ? OR MEGADRILE? ?
S2	0	HAPLOTAXIDA? ? OR DEWWORM? ? OR ANGLEWORM? ? OR NIGHTCRAWL- ER? ? OR (DEW OR ANGLE) ()WORM? ?
S3	0	MEGASCOLECID?? OR SPARAGANOPHILID?? OR GLOSSOSCOLECID?? OR ACANTHOCEPHALA? ? OR ANNELID? OR CHAETOGNATHA? ? OR GNATHOSTO- MULIDA? ? OR NEMATODA? ? OR NEMATOMORPHA? ? OR NEMERTEA? ? OR ONYCHOPHORA? ? OR PLATYHELMINTH? OR SIPUNCULA? ?
S4	3	(SPINY()HEADED OR SEGMENTED OR ARROW OR JAW OR HORSEHAIR OR VELVET OR PEANUT) () (WORM OR WORMS) OR ROUNDWORM? ? OR RIBBON- WORM? ? OR FLATWORM? ? OR HELMINTH? ? [not relevant]
S5	0	ARROWWORM? ? OR NEMERTINE? ? OR PROBISCUS()WORM? ? OR BEAR- D()WORM? ? OR POGONOPHORAN? ?
S6	5901	HEAT OR HEATS OR HEATED OR HEATING OR HEATER? ?
S7	4860	THERMAL?? OR CAUTER?
S8	12438	ELECTROCAUTER? OR THERMOCAUTER? OR BURN OR BURNS OR BURNING OR BURNED
S9	16012	TISSUE? ?

File 167:Medical Device Register (R) 1999

(c) 1998 Medical Economics

File 188:Health Devices Sourcebook 2004

ECRI (A nonprofit agency)

Set	Items	Description
S1	0	EARTH()WORM? ? OR EARTHWORM? ? OR EISENIA() (FOETIDA OR FET- IDA OR WORM? ?) OR LUMBRICUS OR LUMBRICID?? OR ALLOLOBOPHORA(- )CALIGINOSA? ? OR OLIGOCHAETA? ? OR MEGADRILE? ?
S2	0	HAPLOTAXIDA? ? OR DEWWORM? ? OR ANGLEWORM? ? OR NIGHTCRAWL- ER? ? OR (DEW OR ANGLE) ()WORM? ?
S3	0	MEGASCOLECID?? OR SPARAGANOPHILID?? OR GLOSSOSCOLECID?? OR ACANTHOCEPHALA? ? OR ANNELID? OR CHAETOGNATHA? ? OR GNATHOSTO- MULIDA? ? OR NEMATODA? ? OR NEMATOMORPHA? ? OR NEMERTEA? ? OR ONYCHOPHORA? ? OR PLATYHELMINTH? OR SIPUNCULA? ?
S4	0	(SPINY()HEADED OR SEGMENTED OR ARROW OR JAW OR HORSEHAIR OR VELVET OR PEANUT) () (WORM OR WORMS) OR ROUNDWORM? ? OR RIBBON- WORM? ? OR FLATWORM? ? OR HELMINTH? ?
S5	0	ARROWWORM? ? OR NEMERTINE? ? OR PROBISCUS()WORM? ? OR BEAR- D()WORM? ? OR POGONOPHORAN? ?
S6	618	HEAT OR HEATS OR HEATED OR HEATING OR HEATER? ?
S7	230	THERMAL?? OR CAUTER?
S8	320	ELECTROCAUTER? OR THERMOCAUTER? OR BURN OR BURNS OR BURNING OR BURNED
S9	776	TISSUE? ?

File 781:ProQuest Newsstand 1998-2005/Oct 28

(c) 2005 ProQuest Info&Learning

File 20:Dialog Global Reporter 1997-2005/Oct 28

(c) 2005 Dialog

Set	Items	Description
S1	3218	EARTH()WORM? ? OR EARTHWORM? ? OR EISENIA() (FOETIDA OR FET- IDA OR WORM? ?) OR LUMBRICUS OR LUMBRICID?? OR ALLOLOBOPHORA(- )CALIGINOSA? ? OR OLIGOCHAETA? ? OR MEGADRILE? ?
S2	1333	HAPLOTAXIDA? ? OR DEWWORM? ? OR ANGLEWORM? ? OR NIGHTCRAWL-

ER? ? OR (DEW OR ANGLE) () WORM? ?  
 S3 141 MEGASCOLECID?? OR SPARAGANOPHILID?? OR GLOSSOSCOLECID?? OR  
 ACANTHOCEPHALA? ? OR ANNELID? OR CHAETOGNATHA? ? OR GNATHOSTO-  
 MULIDA? ? OR NEMATODA? ? OR NEMATOMORPHA? ? OR NEMERTEA? ? OR  
 ONYCHOPHORA? ? OR PLATYHELMINTH? OR SIPUNCULA? ?  
 S4 1095 (SPINY() HEADED OR SEGMENTED OR ARROW OR JAW OR HORSEHAIR OR  
 VELVET OR PEANUT) () (WORM OR WORMS) OR ROUNDWORM? ? OR RIBBON-  
 WORM? ? OR FLATWORM? ? OR HELMINTH? ?  
 S5 3 ARROWWORM? ? OR NEMERTINE? ? OR PROBISCUS() WORM? ? OR BEAR-  
 D() WORM? ? OR POGONOPHORAN? ?  
 S6 848794 HEAT OR HEATS OR HEATED OR HEATING OR HEATER? ?  
 S7 103051 THERMAL?? OR CAUTER?  
 S8 793779 ELECTROCAUTER? OR THERMOCAUTER? OR BURN OR BURNS OR BURNING  
 OR BURNED  
 S9 144780 TISSUE? ?  
 S10 0 1:S5(S)S6:S8  
 S11 91 S1:S5(S)S6:S8  
 S12 39 S8(S)S11  
 S13 33 RD (unique items)  
 S14 10 S13/2004:2005  
 S15 23 S13 NOT S14  
 S16 23 Sort S15/ALL/PD,A [not relevant]

File 993:NewsRoom 2003

(c) 2005 Dialog

File 484:Periodical Abs Plustext 1986-2005/Oct W4

(c) 2005 ProQuest

File 141:Readers Guide 1983-2004/Dec

(c) 2005 The HW Wilson Co

File 98:General Sci Abs/Full-Text 1984-2004/Dec

(c) 2005 The HW Wilson Co.

File 88:Gale Group Business A.R.T.S. 1976-2005/Oct 28

(c) 2005 The Gale Group

File 47:Gale Group Magazine DB(TM) 1959-2005/Oct 28

(c) 2005 The Gale group

Set Items Description

S1 11 (EARTH() WORM? ? OR EARTHWORM? ?) (S) (FORCEPS OR CAUTER? OR -  
 THERMOCAUTER? OR ELECTROCAUTER?)

S2 6 RD (unique items) [not relevant]

File 155:MEDLINE(R) 1951-2005/Oct 27  
(c) format only 2005 Dialog  
File 5:Biosis Previews(R) 1969-2005/Oct W4  
(c) 2005 BIOSIS  
File 73:EMBASE 1974-2005/Oct 28  
(c) 2005 Elsevier Science B.V.  
File 34:SciSearch(R) Cited Ref Sci 1990-2005/Oct W4  
(c) 2005 Inst for Sci Info  
File 24:CSA Life Sciences Abstracts 1966-2005/Sep  
(c) 2005 CSA.  
File 7:Social SciSearch(R) 1972-2005/Oct W4  
(c) 2005 Inst for Sci Info  
File 142:Social Sciences Abstracts 1983-2005/Oct  
(c) 2005 The HW Wilson Co  
Set Items Description  
S1 13 (EARTH()WORM? ? OR EARTHWORM? ?) (S) (FORCEPS OR CAUTER? OR -  
THERMOCAUTER? OR ELECTROCAUTER?)  
S2 3 RD (unique items)

2/3,K/1 (Item 1 from file: 155)

DIALOG(R) File 155:MEDLINE(R)  
(c) format only 2005 Dialog. All rts. reserv.  
12573073 PMID: 9915111

**The characteristics of the electrovomeronasogram: its loss following vomeronasal axotomy in the garter snake.**

Taniguchi M; Wang D; Halpern M

Department of Anatomy and Cell Biology, State University of New York Health Science Center at Brooklyn, NY 11203, USA.

Chemical senses (ENGLAND) Dec 1998, 23 (6) p653-9, ISSN 0379-864X

Journal Code: 8217190

Contract/Grant No.: DC 02531; DC; NIDCD

Publishing Model Print

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

... adult garter snakes, *Thamnophis sirtalis*. Stimulation of vomeronasal epithelium with a stimulus prepared from prey, **earthworm** electric shock secretion (ESS), evoked EVG response in a dose-dependent manner. The magnitude of...

... vomeronasal axotomy, the magnitudes of the EVG responses of animals which received bilateral axotomy without **cauterization** or with **cauterization** was  $-0.19 \pm 0.07$  mV or  $-0.05 \pm 0.02$  mV respectively, compared with... of  $-0.41 \pm 0.10$  mV. The epithelia of animals which received bilateral axotomy without **cauterization** exhibited remarkable degeneration of the bipolar neurons. Maximal depletion of bipolar neurons occurred in the epithelia denervated with **cauterization**, though the difference between cell densities in vomeronasal neuron layers in these epithelia was not...

# FOREIGN AND INTERNATIONAL PATENTS

File 350:Derwent WPIX 1963-2005/UD,UM &UP=200569

(c) 2005 Thomson Derwent

File 344:Chinese Patents Abs Aug 1985-2005/May

(c) 2005 European Patent Office

File 347:JAPIO Nov 1976-2005/Jun(Updated 051004)

(c) 2005 JPO & JAPIO

File 371:French Patents 1961-2002/BOPI 200209

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Set	Items	Description
S1	1583	EARTH()WORM? ? OR EARTHWORM? ? OR EISENIA() (FOETIDA OR FET- IDA OR WORM? ?) OR LUMBRICUS OR LUMBRICID?? OR ALLOLOBOPHORA(- )CALIGINOSA? ? OR OLIGOCHAETA? ? OR MEGADRILE? ?
S2	21	HAPLOTAXIDA? ? OR DEWWORM? ? OR ANGLEWORM? ? OR NIGHTCRAWL- ER? ? OR (DEW OR ANGLE)()WORM? ?
S3	270	MEGASCOLECID?? OR SPARAGANOPHILID?? OR GLOSSOSCOLECID?? OR ACANTHOCEPHALA? ? OR ANNELID? OR CHAETOGNATHA? ? OR GNATHOSTO- MULIDA? ? OR NEMATODA? ? OR NEMATOMORPHA? ? OR NEMERTEA? ? OR ONYCHOPHORA? ? OR PLATYHELMINTH? OR SIPUNCULA? ?
S4	1403	(SPINY()HEADED OR SEGMENTED OR ARROW OR JAW OR HORSEHAIR OR VELVET OR PEANUT)() (WORM OR WORMS) OR ROUNDWORM? ? OR RIBBON- WORM? ? OR FLATWORM? ? OR HELMINTH? ?
S5	1	ARROWWORM? ? OR NEMERTINE? ? OR PROBISCUS()WORM? ? OR BEAR- D()WORM? ? OR POGONOPHORAN? ?
S6	2787693	HEAT OR HEATS OR HEATED OR HEATING OR HEATER? ?
S7	645499	THERMAL?? OR CAUTER?
S8	132974	ELECTROCAUTER? OR THERMOCAUTER? OR BURN OR BURNS OR BURNING OR BURNED
S9	134697	TISSUE? ?
S10	283953	IC=A61B?
S11	241	S1:S5 AND S6:S8
<b>S12</b>	<b>17</b>	<b>S11 AND S9 [not relevant]</b>
S13	2	S11 AND S10
S14	0	S13 NOT S12
S15	1002	S1/TI OR S2/TI OR S3/TI OR S4/TI OR S5/TI
S16	1074534	S6/TI OR S7/TI OR S8/TI
S17	19	S15 AND S16
<b>S18</b>	<b>17</b>	<b>S17 NOT S12 [not relevant]</b>
S19	18	S15 AND S10
<b>S20</b>	<b>17</b>	<b>S19 NOT (S12 OR S17) [not relevant]</b>
S21	14400	MEDICAL() (DEVICE? ? OR INSTRUMENT? ? OR INSTRUMENTATION OR FORCEPS)
S22	67649	SURGERY OR SURGICAL
S23	2	S11 AND S21:S22
S24	0	S23 NOT (S12 OR S17 OR S19)

## INVENTORS

File 350:Derwent WPIX 1963-2005/UD,UM &UP=200568

(c) 2005 Thomson Derwent

File 349:PCT FULLTEXT 1979-2005/UB=20051027,UT=20051020

(c) 2005 WIPO/Univentio

File 348:EUROPEAN PATENTS 1978-2005/Oct W04

(c) 2005 European Patent Office

Set Items Description

S1 86 AU='MCGAFFIGAN T' OR AU='MCGAFFIGAN T H' OR AU='MCGAFFIGAN THOMAS H' OR AU='MCGAFFIGAN THOMAS HAYNES' OR AU='MCGAFFIGAN T H'  
S2 24 AU='ECHEVERRY J A' OR AU='ECHEVERRY J M' OR AU='ECHEVERRY - JAN M' OR AU='ECHEVERRY J M' OR AU='ECHEVERRY'  
S3 17 AU='BOUDIN D' OR AU='BOUDIN DANIEL' OR AU='BOUDIN DONIELLE'  
S4 4 AU='CARLOTTO P' OR AU='CARLOTTO PETER'  
S5 22 AU='LE H'  
S6 3 AU='LE HUY' OR AU='LE HUY HOANG'  
S7 10 AU='LE H H'  
S8 43004 WORM? ? OR EARTHWORM? ?  
S9 2 S1:S7 AND S8

9/3,AB,IC/1 (Item 1 from file: 350)

DIALOG(R)File 350:Derwent WPIX

(c) 2005 Thomson Derwent. All rts. reserv.

017070154

WPI Acc No: 2005-394492/200540

Related WPI Acc No: 2005-394608

XRPX Acc No: N05-319692

***Surgical device e.g. thermal cautery forceps, testing method, involves disposing thermally conductive plate between sleeve and resistive heating unit, and finding suitability of device based on observed effect on earth worm***

Patent Assignee: STARION INSTR CORP (STAR-N)

Inventor: BOUDIN D ; CARLOTTO P ; ECHEVERRY J M ; LE H ; MCGAFFIGAN T H

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20050103352	A1	20050519	US 2003713341	A	20031114	200540 B

Priority Applications (No Type Date): US 2003713341 A 20031114

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20050103352	A1		8	A61B-017/00	

Abstract (Basic): US 20050103352 A1

Abstract (Basic):

NOVELTY - The method involves connecting a resistive heating unit (11) of a surgical device to a source of power. A resilient sleeve surrounds and closely conforms to a grasping arm. A thermally conductive plate (15) is disposed over the sleeve and between the sleeve and the heating unit. The power is applied to the device to affect an earth worm . A suitability of the device is determined based on an observed effect on the earth worm .

USE - Used for testing a surgical device e.g. a starion laproscopic thermal ligating shear, a starion thermal cautery forceps, an open surgical forceps and clamps, and a catheter-based device.

ADVANTAGE - The thermally conductive plate is disposed over the sleeve between the sleeve and the resistive heating unit, thus providing improved contact between plate and a tissue. The plate

increases an amount of heat energy delivered to the tissue, thus increasing seal size between the sleeve and the resistive heating unit and integrity of the seal. The heating unit and the plate are in intimate contact with very little thermal resistance between the heating unit and the plate, thus effectively improving longitudinal thermal conductivity because of good longitudinal conductivity of the plate. The use of the earth **worm** as a model for tissue in the testing of the device provides an inexpensive and convenient method of bench testing cautery device.

DESCRIPTION OF DRAWING(S) - The drawing shows a laparoscopic thermal ligating shear designed to provide thermal ligation and division in numerous endoscopic procedure.

Pivot section (8)

Actuator rod (9)

Rigid tube (10)

Resistive heating unit (11)

Thermally conductive plate (15)

pp; 8 DwgNo 1/10

International Patent Class (Main): A61B-017/00

International Patent Class (Additional): A61B-018/04; A61B-019/00

**9/3,AB,IC/2 (Item 1 from file: 349)**

DIALOG(R) File 349:PCT FULLTEXT

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01243082

**THERMAL CAUTERY DEVICES WITH IMPROVED HEATING PROFILES AND METHOD OF TESTING THERMAL CAUTERY DEVICES**

**DISPOSITIFS DE CAUTERISATION THERMIQUE A PROFILS DE CHAUFFAGE AMELIORES ET PROCEDE D'ESSAI DESDITS DISPOSITIFS DE CAUTERISATION THERMIQUE**

Patent Applicant/Assignee:

STARION INSTRUMENTS CORPORATION, 20665 Fourth Street, Saratoga, CA 95070,  
US, US (Residence), US (Nationality), (For all designated states  
except: US)

Patent Applicant/Inventor:

**MCGAFFIGAN Thomas H** , 20665 Fourth Street, Saratoga, CA 95070, US, US  
(Residence), US (Nationality), (Designated only for: US)

**ECHEVERRY Jan M**, 20665 Fourth Street, Saratoga, CA 95070, US, US  
(Residence), US (Nationality), (Designated only for: US)

**BOUDIN Donielle** , 20665 Fourth Street, Saratoga, CA 95070, US, US  
(Residence), US (Nationality), (Designated only for: US)

**CARLOTTO Peter** , 20665 Fourth Street, Saratoga, CA 95070, US, US  
(Residence), US (Nationality), (Designated only for: US)

**LE Huy** , 20665 Fourth Street, Saratoga, CA 95070, US, US (Residence), US  
(Nationality), (Designated only for: US)

Legal Representative:

CROCKETT David K (agent), Crockett & Crockett, 24012 Calle De La Plata,  
Suite 400, Laguna Hills, CA 92653, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200548863 A1 20050602 (WO 0548863)

Application: WO 2004US37680 20041110 (PCT/WO US04037680)

Priority Application: US 2003713490 20031114; US 2003713341 20031114

Designated States:

(All protection types applied unless otherwise stated - for applications  
2004+)

AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM  
DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC



LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO  
RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW  
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LU MC NL PL PT  
RO SE SI SK TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) BW GH GM KE LS MW MZ NA SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: A61B-018/18

Publication Language: English

Filing Language: English

Fulltext Word Count: 6579

English Abstract

Thermal cautery and thermal ligating devices (1)improved by the addition  
of a thermally conductive plate proximate the resistive heating element  
(11) used in those devices.

File 155:MEDLINE(R) 1951-2005/Oct 27  
 File 5:Biosis Previews(R) 1969-2005/Oct W4  
 File 73:EMBASE 1974-2005/Oct 28  
 File 34:SciSearch(R) Cited Ref Sci 1990-2005/Oct W4  
 File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec

Set	Items	Description
S1	6	AU=MCGAFFIGAN T?
S2	45	AU=ECHEVERRY J?
S3	1	AU=ECHEVERY J?
S4	3	AU=BOUDIN D?
S5	4	AU=CARLOTTO P?
S6	4047	AU=LE H?
S7	78209	WORM OR WORMS OR EARTHWORM? ?
S8	4	S1:S6 AND S7
S9	2	RD (unique items) [not relevant]

File 149:TGG Health&Wellness DB(SM) 1976-2005/Oct W4  
 File 148:Gale Group Trade & Industry DB 1976-2005/Oct 28  
 File 16:Gale Group PROMT(R) 1990-2005/Oct 27  
 File 160:Gale Group PROMT(R) 1972-1989  
 File 635:Business Dateline(R) 1985-2005/Oct 27  
 File 636:Gale Group Newsletter DB(TM) 1987-2005/Oct 27  
 File 486: Press-Telegram 1992- 2005/Oct 26  
 File 634:San Jose Mercury Jun 1985-2005/Oct 27  
 File 640:San Francisco Chronicle 1988-2005/Oct 28  
 File 645:Contra Costa Papers 1995- 2005/Oct 26  
 File 716:Daily News Of L.A. 1989-2005/Oct 27  
 File 732:San Francisco Exam. 1990- 2000/Nov 21  
 File 739:The Fresno Bee 1990-2005/Oct 27

Set	Items	Description
S1	1385	MCGAFFIGAN OR ECHEVERRY OR ECHEVERY OR BOUDIN OR CARLOTTO - OR HUY()LE
S2	55699	WORM OR WORMS OR EARTHWORM? ?
S3	1	S1(S)S2 [not relevant]

File 155:MEDLINE(R) 1951-2005/Oct 27

Set	Items	Description
S1	2203	R1:R7
S2	1106	AU=(MCGAFFIGAN T? OR ECHEVERRY J? OR ECHEVERY J? OR BOUDIN D? OR CARLOTTO P? OR LE H?)
S3	0	S1 AND S2